



Power Supplies for LED Lighting

Entertainment ■ Broadcast ■ Signage ■ Architecture

POWERING CRITICAL SOLUTIONS



LED LIGHTING

Experience and studies show that power supplies can be the weakest link in LED lighting solutions. This is why leading LED lighting manufacturers select SL Power as their trusted power supply partner due to:

- Highly efficient thermal design for high temperature applications
- Long life electrolytic capacitors with low equivalent series resistance
- Compact size



SL Power Electronics Standard Products



Internal Power Supplies

Our internal power supplies offer the highest convection cooling in the industry. Ranging from 20W to 500W, our power supplies meet the demands of EMI with low leakage.

External Power Supplies

Today's industrial, test & measurement and medical applications require reliable power. Available from 10W to 240W, our external power supplies can be configured to meet your precise application.



LED

With an efficiency range of 92% to 94%, SL Power's LED power products are reliable and flexible, providing long-life performance for indoor and outdoor LED lighting applications.

POE

Our Power Over Ethernet Midspan adapters meet IEEE 802.3 af/at, in power ranges from 15W to 80W, with 48Vdc or 56Vdc output.

Linear

SL Power's linear power supplies are extremely reliable and are perfect for applications requiring very low output ripple and noise.



SL Power Electronics Standard Products

EXTERNALS

Output Power (W)	Configuration		Industrial External Power Supplies		Medical External Power Supplies	
	Wall-Mount	Desktop	Model Family	Standard Voltages	Model Family	Standard Voltages
10	X	X	TE10	5, 6, 7.5, 12, 24	ME10	5, 6, 7.5, 12, 24
20	X	X	TE20	5, 6, 7.5, 9, 12, 18, 24, 48	ME20	5, 6, 7.5, 9, 12, 18, 24, 48
30	X	X	TE30	5, 12, 15, 18, 24, 48	ME30	5, 12, 15, 18, 24, 48
40	X	X	TE40	12, 18, 24	ME40	12, 18, 24
60		X	TE60	5, 12, 18, 24, 48	ME60	5, 12, 18, 24, 48
90		X	TE90	12, 15, 18, 24	ME90	12, 15, 18, 24
120		X	TE120	12, 18, 24	ME120	12, 18, 24
240		X	TE240	12, 24, 28, 48	ME240	12, 24, 28, 48

All Models are compliant to the U.S. Dept. of Energy Efficiency Level VI. All TE Series models are certified to IEC/EN/UL60950-1, 2nd Edition. All ME Series models are certified to IEC/EN/UL60601-1, 3rd Edition (4th Edition EMC.)

INTERNALS

Output Power (W)		Product Type		Output Voltages (Vdc)	Size	Features
w/Airflow	Convection	Medical	Industrial			
	55-60	MB60S	GB60S	12, 15, 18, 24, 36 (MB only), 48	2" x 3" x 1"	-10 to 80C Temp. Range, Small Size
	65	MB65S	TB65S	12, 15, 24, 48	2" x 3.5" x 1.3"	4th Ed. EMC, BF Rated, Long Life
110	80	MB110S	TB110S	12, 24, 48	2" x 4" x 1.4"	Enhanced EMC, Long e-cap life
110	80	MINT3110	CINT3110	5/±12, 5/±15, 5/±24	2" x 4" x 1.3"	Triple Output
150	100	MINT1150	CINT1150	12, 15, 24, 48, 56	2" x 4" x 1.2"	High Density
175	120	MINT1175	CINT1175	12, 15, 24, 48, 56	2" x 4" x 1.3"	PF, DCOK, I share, Inhibit, etc.
200	180		CINT1200	12, 15, 18, 24, 28, 32, 36, 48	3" x 5" x 1.22"	EN55024 Versions Available
	180	MINT1180		12, 15, 18, 24, 28, 32, 36, 48	3" x 5" x 1.22"	High Convection Power
275	180	MINT1275	CINT1275	12, 15, 24, 48, 56	3" x 5" x 1.22"	5Vsb, PF, DC OK, I share, Inhibit, etc.
425	300	MU425S	TU425S	12, 24, 48, 56	3.3" x 6.2" x 1.6"	Heavy Industrial EMC, 5V/2A Standby
500	350	MINT1500*	MINT1500	24, 48, 56	3.3" x 7.0" x 1.68"	5Vsb, PF, DCOK, I share, Inhibit, etc.

All Industrial Models are Certified to IEC/EN/UL60950-1, 2nd Edition. All Medical Models are Certified to IEC/EN/UL60601-1, 3rd Edition; 2MOPP Isolation. BF Rated version is available. Consult the factory for model numbers.

LIGHTING

Power (W)	Model	Output Voltages (Vdc)	Cooling	Max. Temp.	Size	Construction
20	LB20S	48V	Convection	70°C	2" x 3" x 1.0"	Board Mount
75	LE75S	13-27, 54-108 (CC)	Convection	70°C	2.7" x 5.9" x 4.5"	Fully Enclosed, IP67
115	LB115	12, 15, 24, 48, 56V	Convection/ Fan-cooled	70°C	2" x 4" x 1.2"	Board Mount, Optional Cooling Plate
130	LB130S	56V	Conduction	70°C	3" x 5" x 1.3"	Board Mount
150	LE150S-CD	53-107, 107-214 (CC)	Convection	70°C	3.13" x 9.4" x 1.8"	Fully Enclosed, IP67
150	LE150S-VN	24V, 48V	Convection	70°C	2.7" x 7.83" x 1.6"	Fully Enclosed, IP67
240	LB240S	48V	Convection/ Conduction/ Fan-cooled	70°C	3" x 5" x 1.3"	Board Mount, Optional Cooling Plate
200	LE200-CD	143-285 (CC)	Convection	70°C	3.13" x 9.4" x 1.8"	Fully Enclosed, IP67
300	LE300S	24, 28V, 48V	Convection	70°C	3.9" x 8.8" x 1.75"	Fully Enclosed, IP67
500	LU500S	12V, 24V, 36V*	Convection/ Fan-cooled	70°C	4" x 7.25" x 2.2"	U-channel chassis

Internal Power for Theatre LED Lights



LB130

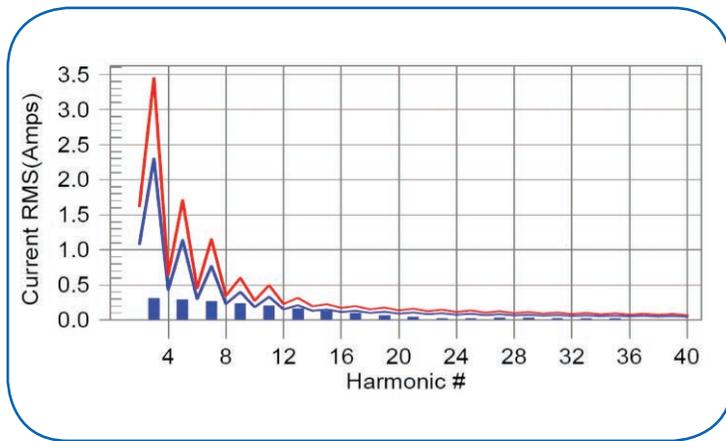
LED lights bring excitement to the stage yet they must be dependable. LED lighting systems must also deliver the best performance. SL Power Electronics' power supplies provide cool thermals and superb EMC and EMI compliance, making them a perfect fit for LED lighting systems.



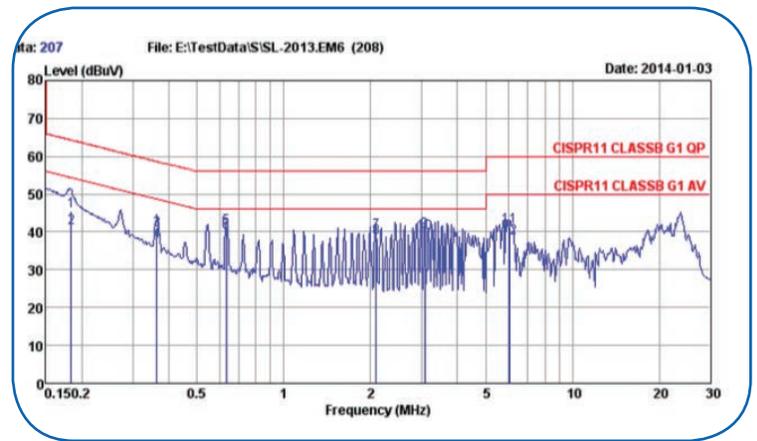
SL Power Electronics

Internal Power Supplies

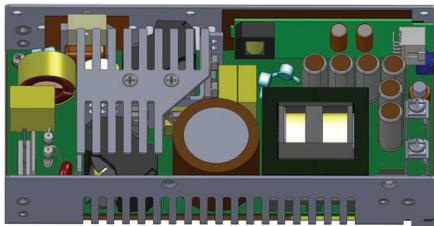
Our power supplies for LED applications are designed to the highest levels of EMC and EMI compliance.



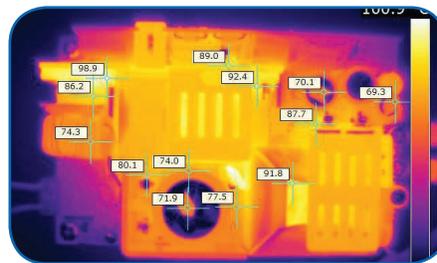
Harmonic Distortion, IEC
61000-3-2 Class A



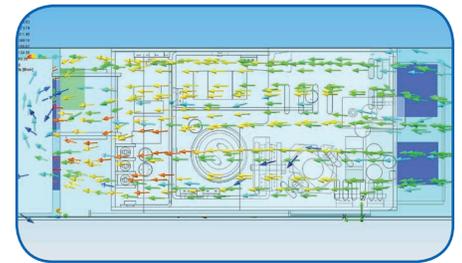
EMI Performance, CISPR11
Class B



Mechanical
Modeling

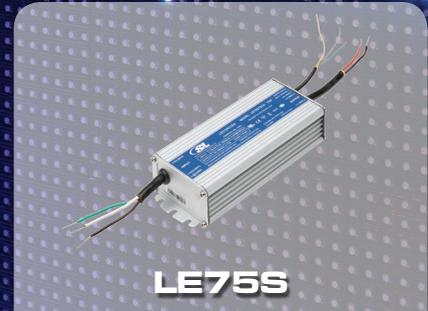


Thermal
Performance
Evaluation



Airflow
Analysis

External Power for LED Signage



LE75S

LED signage applications require long life, brightness consistency, and uniformity. LEDs require power supplies that are extremely reliable and efficient. SL Power Electronics' external power supplies are designed to meet IP67, stringent EMC requirements and global safety standards.

LED DRIVERS

- 90-305Vac Input Range
- -35°C to 70°C Operating Temperature Range
- Waterproof/IP67 with Metal Packaging
- Meet EN 55015 Emission Standards
- UL8750 & EN61347 Approvals



Model	Pout Convection	Pout Convection	Iout Constant Voltage (Amp)	Iout Constant Current (mA)	Dimming
LE75S28CD	75	13 – 27	•	2,800	1 – 10 Vdc Input Signal
LE75S140CD	75	27 – 54	•	1,400	1 – 10 Vdc Input Signal
LE75S70CD	75	54 – 108	•	700	1 – 10 Vdc Input Signal
LE150S24VN	150	24	6.25	•	•
LE150S48VN	150	48	3.13	•	•
LE150S70CD	150	107- 214	•	700	1 – 10 Vdc Input Signal
LE150S140CD	150	53 – 107	•	1,400	1 – 10 Vdc Input Signal
LE200S70CD	200	143 – 285	•	700	1 – 10 Vdc Input Signal
LE300S28VN	300	28	10.71	•	•
LE300S48VN	300	48	6.25	•	•

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